#include<stdio.h>

int main(){

int a[3][3], i, j;

long determinant;

printf("Enter the 9 elements of matrix: ");

for(i = 0 ;i < 3;i++)

for(j = 0;j < 3;j++)

scanf("%d", &a[i][j]);

printf("\nThe matrix is\n");

for(i = 0;i < 3; i++){

printf("\n");

for(j = 0;j < 3; j++)

printf("%d\t", a[i][j]);

}

determinant = a[0][0] \* ((a[1][1]\*a[2][2]) - (a[2][1]\*a[1][2])) -a[0][1] \* (a[1][0]

\* a[2][2] - a[2][0] \* a[1][2]) + a[0][2] \* (a[1][0] \* a[2][1] - a[2][0] \* a[1][1]);

printf("\nDeterminant of 3X3 matrix: %ld", determinant);

return 0;

}